In the claims:

1. (Withdrawn) A method for forming a semiconductor device comprising:

forming a semiconductor film comprising silicon over a substrate; and

irradiating said semiconductor film with a linear laser light to form a region to become at least a channel formation region in said semiconductor film,

wherein said region to become at least a channel formation region contains hydrogen at a concentration of 1 x 10^{15} to 1 x 10^{20} atoms cm⁻³, also contains carbon and nitrogen at a

concentration of 1 x 10^{16} to 5 x 10^{18} atoms cm⁻³, and further contains oxygen at a concentration of 1 x 10^{17} to 5 x 10^{19} atoms cm⁻³.

2. (Withdrawn) A method for forming a semiconductor device comprising:

forming a semiconductor film comprising silicon over a substrate; and

irradiating said semiconductor film with a linear laser light to form a region to become at least a channel formation region in said semiconductor film,

wherein said region to become at least a channel formation region contains hydrogen and halogen at a concentration of 1 x 10^{15} to 1 x 10^{20} atoms cm⁻³, also contains carbon and nitrogen at a concentration of 1 x 10^{16} to 5 x 10^{18} atoms cm⁻³, and further contains oxygen at a concentration of 1 x 10^{17} to 5 x 10^{19} atoms cm⁻³.

3. (Withdrawn) A method for forming a semiconductor device comprising:

forming a semiconductor film comprising silicon over a substrate; and

irradiating said semiconductor film with a linear laser light to form a single-crystalline region or region equivalent to the single-crystalline region to become at least a channel formation region in said semiconductor film,

wherein said single-crystalline region or region equivalent to the single-crystalline region contains substantially no crystal boundary therein, contains hydrogen at a concentration of 1 x 10^{15} to 1 x 10^{20} atoms cm⁻³, also contains carbon and nitrogen at a concentration of 1 x 10^{16} to 5 x 10^{18} atoms cm⁻³, and further contains oxygen at a concentration of 1 x

 10^{17} to 5 x 10^{19} atoms cm⁻³.

4. (Withdrawn) A method for forming a semiconductor device comprising:

forming a semiconductor film comprising silicon over a substrate; and

irradiating said semiconductor film with a linear laser light to form a single-crystalline region or region equivalent to the single-crystalline region to become at least a channel formation region in said semiconductor film,

wherein said single-crystalline region or region equivalent to the single-crystalline region contains substantially no crystal boundary therein, contains hydrogen and halogen at a concentration of 1×10^{15} to 1×10^{20} atoms cm⁻³, also contains carbon and nitrogen at a concentration of 1×10^{16} to 5×10^{18} atoms cm⁻³, and further contains oxygen at a concentration of 1×10^{17} to 5×10^{19} atoms cm⁻³.

5. (Withdrawn) A method for forming a semiconductor device comprising:

forming an amorphous semiconductor film comprising silicon over a substrate;

forming an amorphous semiconductor island comprising silicon by etching said amorphous semiconductor film into a first shape having a narrowest width of 100 μm or less;

irradiating said semiconductor island with a linear laser light to form a single-crystalline region or region equivalent to the single-crystalline region to become at least a channel formation region in said semiconductor island; and

etching an end portion of said semiconductor island to narrow a portion of said semiconductor island from said end

Attorney's Docket No.:07977-010004

portion of said semiconductor island by 10 μm or more to form a second shape semiconductor region which has the narrowed portion in at least said channel formation region,

02/12/5002 12:20 LVV 2226/2208

wherein said single-crystalline region or region equivalent to the single-crystalline region contains substantially no crystal boundary therein, contains hydrogen and halogen at a concentration of 1 x 10^{15} to 1 x 10^{20} atoms cm⁻³, also contains carbon and nitrogen at a concentration of 1 x 10^{16} to 5 x 10^{18} atoms cm⁻³, and further contains oxygen at a concentration of 1 x 10^{17} to 5 x 10^{19} atoms cm⁻³.

- 6. (Withdrawn) A method according to claim 1 wherein said linear laser light is a laser light selected from the group consisting of a KrF excimer laser light, a XeCl excimer laser light, a Nd:YAG laser light, a second harmonic of said Nd:YAG laser light and a third harmonic of said Nd:YAG laser light.
- 7. (Withdrawn) A method according to claim 1 wherein said substrate is selected from the group consisting of a glass substrate and a quartz substrate.
- 8. (Withdrawn) A method according to claim 2 wherein said linear laser light is a laser light selected from the group consisting of a KrF excimer laser light, a XeCl excimer laser light, a Nd:YAG laser light, a second harmonic of said Nd:YAG laser light and a third harmonic of said Nd:YAG laser light.
- 9. (Withdrawn) A method according to claim 2 wherein said substrate is selected from the group consisting of a glass substrate and a quartz substrate.

Attorney's Docket No.:07977-010004

- 10. (Withdrawn) A method according to claim 3 wherein said linear laser light is a laser light selected from the group consisting of a KrF excimer laser light, a XeCl excimer laser light, a Nd:YAG laser light, a second harmonic of said Nd:YAG laser light.
- 11. (Withdrawn) A method according to claim 3 wherein said substrate is selected from the group consisting of a glass substrate and a quartz substrate.
- 12. (Withdrawn) A method according to claim 4 wherein said linear laser light is a laser light selected from the group consisting of a KrF excimer laser light, a XeCl excimer laser light, a Nd:YAG laser light, a second harmonic of said Nd:YAG laser light.
- 13. (Withdrawn) A method according to claim 4 wherein said substrate is selected from the group consisting of a glass substrate and a quartz substrate.
- 14. (Withdrawn) A method according to claim 5 wherein said linear laser light is a laser light selected from the group consisting of a KrF excimer laser light, a XeCl excimer laser light, a Nd:YAG laser light, a second harmonic of said Nd:YAG laser light and a third harmonic of said Nd:YAG laser light.
- 15. (Withdrawn) A method according to claim 5 wherein said substrate is selected from the group consisting of a glass substrate and a quartz substrate.
- 16. (Withdrawn) A method according to claim 1 wherein said semiconductor device is a liquid crystal display.

17. (Withdrawn) A method according to claim 2 wherein said semiconductor device is a liquid crystal display.

02/12/5002 Tetat Lvv as

- 18. (Withdrawn) A method according to claim 3 wherein said semiconductor device is a liquid crystal display.
- 19. (Withdrawn) A method according to claim 4 wherein said semiconductor device is a liquid crystal display.
- 20. (Withdrawn) A method according to claim 5 wherein said semiconductor device is a liquid crystal display.
- 21. (Withdrawn) A method of manufacturing a semiconductor device comprising the steps of:

forming an amorphous semiconductor film over a substrate;

irradiating the amorphous semiconductor film with a CW laser having a wavelength of 532 nm to crystallize the amorphous semiconductor film; and

patterning the crystallized semiconductor film to form an active layer including at least a channel formation region.

- 22. (Withdrawn) The method according to claim 21 wherein said amorphous semiconductor film comprises amorphous silicon.
- 23. (Withdrawn) A method of manufacturing a semiconductor device comprising the steps of:

forming an amorphous semiconductor film over a substrate;

Attorney's Docket No.:07977-010004

irradiating the amorphous semiconductor film with a CW laser having a wavelength of 355 nm to crystallize the amorphous semiconductor film; and

patterning the crystallized semiconductor film to form an active layer including at least a channel formation region.

- 24. (Withdrawn) The method according to claim 23 wherein said amorphous semiconductor film comprises amorphous silicon.
- 25. (Currently amended) A method of manufacturing a semiconductor device comprising the steps of:

forming an amorphous semiconductor film over a substrate;

irradiating the amorphous semiconductor film with a second harmonic of a <u>CW_continuous wave_laser comprising Nd to.</u> crystallize the amorphous semiconductor film; and

patterning the crystallized semiconductor film to form an active layer including at least a channel formation region.

- 26. (Previously added) The method according to claim 25 wherein said amorphous semiconductor film comprises amorphous silicon.
- 27. (Currently amended) The method according to claim 25 wherein said CW continuous wave laser comprising Nd is an Nd:YAG laser.
- 28. (Currently amended) A method of manufacturing a semiconductor device comprising the steps of:

forming an amorphous semiconductor film over a substrate;



irradiating the amorphous semiconductor film with a third harmonic of —a <u>CW-continuous wave</u> laser comprising Nd to crystallize the amorphous semiconductor film; and

patterning the crystallized semiconductor film to form an active layer including at least a channel formation region.

- 29. (Previously added) The method according to claim 28 wherein said amorphous semiconductor film comprises amorphous silicon.
- 30. (Currently amended) The method according to claim 28 wherein said CW continuous wave laser comprising Nd is an Nd:YAG laser.